WE CLAIM:

- 1. Synchronizer ring, having a ring body (2) which has a sliding region, the sliding region being provided with a wear-resistant tribological coating, characterized in that the tribological coating (4) is a thermally sprayed coating which contains a maximum of approximately 40% by weight of a solid lubricant.
- 2. Synchronizer ring according to Claim 1, characterized in that the solid lubricant is titanium dioxide (TiO_2), calcium fluoride (CaF_2), hexagonal boron nitride (h-BN), graphite, lead (Pb) or molybdenum sulphide (MoS_2) or any desired mixture of these substances.
- 3. Synchronizer ring according to Claim 1, characterized in that the solid lubricant has a particle size of up to approximately 200 μm and preferably of between 50 μm and 180 μm .
- 4. Synchronizer ring according to one of the preceding claims, characterized in that the thermally sprayed coating (4) furthermore contains tin and/or zinc and/or silicon and/or nickel and/or manganese and/or copper and/or aluminium and/or one or more of their oxides and/or one or more of their oxides and/or one or more of their nitrides and/or carbon.
- 5. Synchronizer ring according to one of the preceding claims, characterized in that the thermally sprayed coating has a porosity of up to approximately 30%.
- 6. Process for applying a wear-resistant tribological coating to the sliding region of a synchronizer ring, characterized in that the coating (4) is thermally sprayed, a spraying compound

which contains at most approximately 40% by weight of a solid lubricant being used.

- 7. Process according to Claim 6, characterized in that the solid lubricant used is titanium dioxide (TiO_2) , calcium fluoride (CaF_2) , hexagonal boron nitride (h-BN), graphite, lead (Pb) or molybdenum sulphide (MoS_2) or any desired mixture of these solid lubricants.
- 8. Process according to Claim 6, characterized in that a spraying compound is used which furthermore contains tin and/or zinc and/or silicon and/or nickel and/or manganese and/or copper and/or aluminium and/or one or more of their oxides and/or one or more of their carbides and/or one or more of their nitrides and/or carbon.
- 9. Process according to Claim 6, characterized in that the coating is applied in a wire arc spraying process and/or a flame spraying process.
- 10. Process according to Claim 9, characterized in that the spraying compound used is a filled wire which has a filling which contains a solid lubricant and, if appropriate, tin and/or zinc and/or silicon and/or nickel and/or manganese and/or copper and/or aluminium and/or one or more of their oxides and/or one or more of their carbides and/or one or more of their nitrides and/or carbon.
- 11. Process according to Claim 10, characterized in that a filled wire with a covering of copper and/or tin and/or zinc and/or aluminium and/or their alloys is used.
- 12. Process according to one of the preceding claims, characterized in that, in addition to a filled wire, a solid wire, preferably made from CuAl8, is used as the spraying compound.

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- 13. Process according to one of Claims 6 to 12, characterized in that the sliding region (3), prior to the application of the coating (4), is roughened, preferably sand-blasted and degreased.
- 14. Process according to one of Claims 6 to 13, characterized in that the coating (4) is stamped after it has been applied.